CALIFORNIA
Water Boards

EDMUND G. BROWN JR.
GOVERNOR

MATTHEW RODRIQUEZ
SECRETARY FOR
ENVIRONMENTAL PROTECTION

State Water Resources Control Board
Division of Drinking Water

May 24, 2016

System No. 0510012

Pat Lydon, Superintendent
East Bay Municipal Utility District
Pardee Center
Valley Springs, CA 95252

TRANSMITTAL OF COMPLIANCE ORDER NO. 01-10-16R-004

Dear Mr. Lydon,

The East Bay Municipal Utility District – Camanche South Shore Water System (hereinafter "CASS") is in violation of Section 64533(a) of the California Code of Regulations, Stage 2 Disinfection Byproduct Rule Haloacetic Acids (hereinafter "HAA5") Maximum Contaminant Level (hereinafter "MCL"). Specifically, the HAA5 locational running annual average at the single sampling location exceeded the HAA5 MCL of 0.060 mg/L in the second quarter of 2016.

In response to this violation, the State Water Resources Control Board, Division of Drinking Water (hereinafter "Division") has issued Compliance Order No. 01-10-16R-004. The Compliance Order is being transmitted to CASS under cover of this letter.

Please respond to the directives of this Compliance Order by the deadlines established with each item. If you have any questions regarding this Compliance Order, please contact Dave Remick of this office by email at david.remick@waterboards.ca.gov or by phone at (209) 948-3878.

Sincerely,

Richard L. Hinrichs, P.E., Chief
Northern California Section
Division of Drinking Water
State Water Resources Control Board

Attachments: Compliance Order

Certified Mail/Return Receipt
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STATE OF CALIFORNIA
STATE WATER RESOURCES CONTROL BOARD
DIVISION OF DRINKING WATER

IN RE: East Bay Municipal Utility District – Camanche South Shore Water System No. 0510012

TO: Pat Lydon, Superintendent
East Bay Municipal Utility District
Pardee Center
Valley Springs, CA 95252

COMPLIANCE ORDER NO. 01-10-16R-004

FOR NONCOMPLIANCE WITH THE STAGE 2 DISINFECTION BYPRODUCT RULE MAXIMUM CONTAMINANT LEVEL FOR HALOACETIC ACIDS SECTION 64533(a), TITLE 22, CALIFORNIA CODE OF REGULATIONS

Issued on May 24, 2016

Section 116655 of the California Health and Safety Code authorizes the issuance of a compliance order to a public water system for violation of the California Safe Drinking Water Act (Health and Safety Code, Division 104, Part 12, Chapter 4, commencing with Section 116270) (hereinafter "California SDWA"), or any regulation, standard, permit or order issued or adopted thereunder.

The State Water Resources Control Board (hereinafter "State Board"), acting by and through its Division of Drinking Water (hereinafter, "Division") and the Deputy Director for the Division (hereinafter, "Deputy Director"), hereby issues a compliance order to the East Bay Municipal Utility District – Camanche South Shore Water System

(hereinafter, "CASS") for violation of California Code of Regulations (hereinafter "CCR"), Section 64533(a), Maximum Contaminant Levels for Disinfection Byproducts.

APPLICABLE AUTHORITIES

Section 116655, California SDWA, states in relevant part:

(a) Whenever the Division determines that any person has violated or is violating this chapter, or any permit, regulation, or standard issued or adopted pursuant to this chapter, the director may issue an order doing any of the following:

(1) Directing compliance forthwith.

(2) Directing compliance in accordance with a time schedule set by the department.

(3) Directing that appropriate preventive action be taken in the case of a threatened violation.

(b) An order issued pursuant to this section may include, but shall not be limited to, any or all of the following requirements:

(1) That the existing plant, works, or system be repaired, altered, or added to.

(2) That purification or treatment works be installed.

(3) That the source of the water supply be changed.

(4) That no additional service connection be made to the system.

(5) That the water supply, the plant, or the system be monitored.

(6) That a report on the condition and operation of the plant, works, system, or water supply be submitted to the department.

Section 64533(a), Title 22, CCR, states in relevant part:

(a) Using the monitoring and calculation methods specified in sections 64534, 64534.2, 64535, and 64535.2, the primary MCLs for the disinfection byproducts shown in table 64533-A shall not be exceeded in drinking water supplied to the public.

Table 64533-A
Maximum Contaminant Levels and Detection Limits for Purposes of Reporting Disinfection Byproducts

Disinfection Byproduct	Maximum Contaminant Level (mg/L)	Detection Limit for Purposes of Reporting (mg/L)
Total trihalomethanes (TTHM)	0.080	
Bromodichloromethane		0.0010
Bromoform		0.0010
Chloroform		0.0010
Dibromochloromethane		0.0010
Haloacetic acids (five) (HAA5)	0.060	
Monochloroacetic Acid		0.0020
Dichloroacetic Acid		0.0010
Trichloroacetic Acid		0.0010
Monobromoacetic Acid		0.0010
Dibromoacetic Acid		0.0010
Bromate	0.010	0.0050
Chlorite	1.0	0.020

Additional *Applicable Authorities* are located in Attachment A, which is attached hereto and incorporated by reference.

STATEMENT OF FACTS

CASS is operating under domestic water supply permit No. 03-10-94P-005, issued to EBMUD by the Division on December 14, 1994.

The system serves about 155 permanent residents and a seasonal transient population that can vary greatly, to as many as around 550. Water service is provided

through 448 service connections, of which 82 are permanent mobile homes and about 366 are campsites for travel trailers or other campers. The system is classified as a community water system.

Raw water from the Camanche Reservoir is CASS's sole source of water for domestic use. Raw water is pumped to the surface water treatment plant where it is filtered using an in-line filtration process. Treated water is stored in two 210,000-gallon bolted steel storage tanks. The storage tanks are located on a hill above the park facilities where the gravity head resulting from the elevation of the tanks provides adequate pressures in the entire service area except the higher elevation lots within the permanent mobile home area on a hillside east of the tank. A pressure booster pump station, which is located adjacent to the treatment plant, increases the pressure to the upper mobile home zone.

The Mokelumne River flows into Pardee Reservoir upstream of Camanche Reservoir. Pardee Reservoir is operated as a water supply reservoir by EBMUD and is the primary source of domestic water served to EBMUD customers in the East Bay Area, centered in Oakland. Releases of water from Pardee Reservoir flow via the Mokelumne River into Camanche Reservoir, which is operated by EBMUD as a regulating and flood control reservoir. While no body contact recreation is permitted on Pardee Reservoir, Camanche Reservoir is open to all types of recreation, including body contact recreation.

Raw water supplied to the Camanche South Shore treatment plant is pumped from the area of Camanche Reservoir where the Mokelumne River flows into the reservoir. Water is drawn from a point near the bottom of the Camanche Lake inlet, about 1200 feet from the shore at the north side of the park. The water used in the treatment plant

is pumped using two pumps that have capacities of 250 GPM each. The pumps are supported by a floating raft that is anchored in the area where the Mokelumne River flows into Camanche Reservoir. The pumps are suspended at depths in the water that have been determined to yield the most reliable supply of water of favorable quality. To enhance reliability, each pump has its own controls and discharge line. The discharge lines are 6-inch diameter flexible hoses. In the area close to the shore, each hose is encased in 8-inch diameter PVC pipe to protect the hoses from damage by rocks and other shoreline hazards. The 6-inch discharge lines from the two pumps feed into an 8-inch PVC pipe that conveys the water an additional 800 feet to the treatment plant.

One pump provides water to each of the two parallel treatment trains. When water demand is low, only one raw water pump and one of the treatment trains is operated. During such times, operation of each pump and associated treatment equipment is alternated weekly. The shoreline is fenced for a length of about 1000 feet in the area of closest access to the raw water intake. In addition, this area of fence line is posted with signs that warn potential trespassers to "KEEP OUT". A buoy line has been installed around the intake to restrict recreation in proximity to the intake.

EBMUD is in the process of replacing the old CASS surface water treatment plant with a new ultrafiltration membrane plant, which is estimated to be in service around late-2016. The Division is currently working with EBMUD regarding a new Full Domestic Water Supply Permit for CASS.

CCR, Title 22, Chapter 15.5 (hereinafter "Stage 2 Disinfection Byproduct Rule" or "ST2DBPR") adopted by California, effective June 21, 2012, requires water systems serving less than 10,000 persons to monitor and report disinfection byproduct and

residual disinfectant levels. The ST2DBPR applies to any community or non-transient non-community water system that treats water with a chemical disinfectant in any part of the treatment process, or that provides water containing a chemical disinfectant. CCR Section 64533 establishes a maximum contaminant level (hereinafter "MCL") in drinking water for total trihalomethanes (hereinafter "TTHM") and five haloacetic acids (hereinafter "HAA5") in drinking water of 0.080 mg/L and 0.060 mg/L, respectively.

Based on population, and per CASS's approved ST2DBPR compliance monitoring plan, CASS was required to collect one sample per year each July (for TTHM & HAA5) from the distribution system (Campground Space No. 97). However, the July 15, 2015, TTHM sample result was 0.098 mg/L and the HAA5 sample result was 0.065 mg/L. Since TTHM and HAA5 results exceeded the respective MCLs, the Division directed EBMUD to initiate quarterly monitoring for TTHMs and HAA5s. Quarterly samples are taken in January, April, July, and October.

CCR, Section 64535.2(e)(1), specifies ongoing compliance determinations for quarterly TTHM and HAA5 monitoring; specifically, compliance with the TTHM and HAA5 MCLs are based on a locational running annual average (LRAA), computed quarterly, at each approved sample site. Per §64400.66 "Locational running annual average" or "LRAA" means the average of sample analytical results for samples taken at a particular monitoring location during the previous four calendar quarters. If the LRAA covering any consecutive four-quarter period exceeds the TTHM MCL or the HAA5 MCL at any monitoring location, then the system is in violation of the MCL. The results of the quarterly monitoring are shown in Tables 1 & 2 below:

Table 1 CASS TTHM Results

Sample Location	Sample Date				LRAA (TTHM) MCL=0.080 mg/L
	07/15/2015	10/30/2015	01/14/2016	04/14/2016	
Campground Space #97	0.098 mg/L	0.071 mg/L	0.047 mg/L	0.081 mg/L	**0.074 mg/L**

Table 2 CASS HAA5 Results

Sample Location	Sample Date				LRAA (HAA5) MCL=0.060 mg/L
	07/15/2015	10/30/2015	01/14/2016	04/14/2016	
Campground Space #97	0.065 mg/L	0.062 mg/L	0.058 mg/L	0.082 mg/L	**0.067 mg/L**

The LRAA of the analytical results submitted to the Division for the 2nd quarter of 2016 has exceeded the HAA5 MCL and therefore, CASS is in violation of the HAA5 MCL for the 2nd quarter of 2016. The TTHM MCL was not exceeded; however, the LRAA of 0.074 mg/L is very close to the MCL of 0.080 mg/L.

Specifically, CASS exceeded the HAA5 MCL as specified in Section 64533 (a), Title 22, CCR.

DETERMINATIONS

Based on the above Statement of Facts, the Division has determined that CASS has violated the LRAA MCL for HAA5 during the second quarter of 2016.

DIRECTIVES

To ensure that the water supplied by the CASS water system is at all times safe, wholesome, healthful, and potable, and pursuant to the California SDWA, CASS is hereby directed to take the following actions:

1. Cease and Desist from failing to comply with CCR, Title 22, Section 64533(a), by ensuring that the system is provided with a reliable and adequate supply of pure, wholesome, healthful, and potable water, which is in compliance with all primary drinking water standards.

2. Provide quarterly public notification, which has been approved by the Division, of its inability to the meet the HAA5 MCL during any calendar quarter that the four-quarter locational running annual average exceeds the HAA5 MCL. Notification procedures and format are provided in Attachment B. An electronic version of Attachment B is available upon request. Public notification for the current LRAA HAA5 MCL violation for the 2nd quarter of 2016 shall be provided by June 30, 2016.

3. Proof of public notification shall be provided to the Division following each quarterly notification by the 10th day of the month following notification, using the form provided as Attachment C.

4. Revise the 2012 ST2DBPR Monitoring Plan to reflect the change in monitoring frequency from annual to quarterly. A copy of the plan shall be submitted to the Division by no later than June 30, 2016. Continue to collect quarterly samples for TTHM's and HAA5's from the distribution system in accordance with an approved ST2DBPR monitoring plan. The analytical results shall be reported to the Division electronically by the analyzing laboratory by no later than the 10th day following the month in which the analysis was completed.

5. Prepare a Corrective Action Plan identifying improvements to the water system designed to correct the water quality problem (violation of the HAA5 MCL) and eliminate the need to deliver water to consumers that does not meet primary drinking water standards. The plan shall include a time schedule for completion of various phases of the project.

6. Submit the Corrective Action Plan required under Directive No. 5, above, to the Division by no later than July 29, 2016.

7. Submit quarterly progress reports to the Division. The first quarterly progress report shall describe progress made in the 3rd quarter of 2016 and shall be submitted to the Division by no later than October 15, 2016, using the form provided as Attachment D.

8. Operate the existing water system to minimize formation of total trihalomethanes and haloacetic acids in the distribution system.

9. Submit a written response by no later than June 30, 2016, indicating CASS's willingness to comply with the directives of this Compliance Order.

10. By no later than July 1, 2018, CASS shall achieve compliance with the HAA5 maximum contaminant level, with the completion of a project and demonstration that the locational running annual average is reliably less than the MCL. CASS shall provide written notification of the date that compliance is achieved, no later than ten days following receipt of the laboratory sampling results.

All submittals required by this Order shall be addressed to:

Bhupinder S. Sahota, P.E.,
Senior Sanitary Engineer
State Water Resources Control Board
Division of Drinking Water - Stockton District
31 E. Channel Street, Room 270
Stockton, CA 95202

The Division reserves the right to make such modifications to this Order as it may deem necessary to protect public health and safety. Such modifications may be issued as amendments to this Order and shall be effective upon issuance. Nothing in this Compliance Order relieves CASS of its obligation to meet the requirements of the California SDWA, or any regulation, standard, permit or order issued thereunder.

If CASS is unable to perform the tasks specified in this Order for any reason, whether within or beyond its control, and if CASS notifies the Division in writing no less than five days in advance of the due date, the Division may extend the time for performance if CASS demonstrates that it has used its best efforts to comply with the schedule and other requirements of this Order.

PARTIES BOUND

This Compliance Order shall apply to and be binding upon CASS, its owners, shareholders, officers, directors, agents, employees, contractors, successors, and assignees.

SEVERABILITY

The directives of this Compliance Order are severable, and CASS shall comply with each and every provision thereof notwithstanding the effectiveness of any provision.

FURTHER ENFORCEMENT ACTION

The California SDWA authorizes the Division to issue citations and compliance orders with assessment of administrative penalties to a public water system for violation or continued violation of the requirements of the California SDWA or any permit, regulation, permit or order issued or adopted thereunder including, but not limited to, failure to correct a violation identified in a citation or compliance order. The California SDWA also authorizes the Division to take action to suspend or revoke a permit that has been issued to a public water system if the system has violated applicable law or regulations or has failed to comply with an order of the Division; and to petition the superior court to take various enforcement measures against a public water system that has failed to comply with an order of the Division. The Division does not waive any further enforcement action by issuance of this compliance order.

5/24/2016
Date

Richard L. Hinrichs, P.E., Chief
Northern California Section
NORTHERN CALIFORNIA BRANCH
DRINKING WATER FIELD OPERATIONS

Attachments:
Attachment A: Applicable Authorities
Attachment B: Public Notification Form
Attachment C: Proof of Notification Form
Attachment D: Quarterly Progress Report Form
Attachment E: Stage 2 DBP Monitoring Plan

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Applicable Authorities

Violation of Maximum Contaminant Levels of

Disinfectant Byproducts

California Health and Safety Code, Section 116655, states in relevant part:

> (a) Whenever the department determines that any person has violated or is violating this chapter, or any permit, regulation, or standard issued or adopted pursuant to this chapter, the director may issue an order doing any of the following:
>
> (1) Directing compliance forthwith.
>
> (2) Directing compliance in accordance with a time schedule set by the State Board.
>
> (3) Directing that appropriate preventive action be taken in the case of a threatened violation.
>
> (b) An order issued pursuant to this section may include, but shall not be limited to, any or all of the following requirements:
>
> (1) That the existing plant, works, or system be repaired, altered, or added to.
>
> (2) That purification or treatment works be installed.
>
> (3) That the source of the water supply be changed.
>
> (4) That no additional service connection be made to the system.
>
> (5) That the water supply, the plant, or the system be monitored.
>
> (6) That a report on the condition and operation of the plant, works, system, or water supply be submitted to the department.

California Code of Regulations, Title 22, states in relevant part:

§64533. Maximum Contaminant Levels for Disinfection Byproducts.
(a) Using the monitoring and calculation methods specified in sections 64534, 64534.2, 64535, and 64535.2, the primary MCLs for the disinfection byproducts shown in table 64533-A shall not be exceeded in drinking water supplied to the public.

Table 64533-A
Maximum Contaminant Levels and Detection Limits for Purposes of Reporting Disinfection Byproducts

Disinfection Byproduct	Maximum Contaminant Level (mg/L)	Detection Limit for Purposes of Reporting (mg/L)
Total trihalomethanes (TTHM)	0.080	
Bromodichloromethane		0.0010
Bromoform		0.0010
Chloroform		0.0010
Dibromochloromethane		0.0010
Disinfection Byproduct	**Maximum Contaminant Level (mg/L)**	**Detection Limit for Purposes of Reporting (mg/L)**

Haloacetic acids (five) (HAA5)	0.060	
Monochloroacetic Acid		0.0020
Dichloroacetic Acid		0.0010
Trichloroacetic Acid		0.0010
Monobromoacetic Acid		0.0010
Dibromoacetic Acid		0.0010
Bromate	0.010	0.0050 0.0010[1]
Chlorite	1.0	0.020

[1] For analysis performed using EPA Method 317.0 Revision 2.0, 321.8, or 326.0

§64534. General Monitoring Requirements.

(a) Except as provided in subsection (b), analyses required pursuant to this chapter shall be performed by laboratories certified by the State Board to perform such analyses pursuant to Article 3, commencing with section 100825, of Chapter 4 of Part 1 of Division 101, Health and Safety Code. Unless otherwise directed by the State Board, analyses shall be made in accordance with EPA approved methods as prescribed in 40 Code of Federal Regulations, part 141.131 (63 Fed. Reg. 69466 (December 16, 1998), as amended at 66 Fed. Reg. 3776 (January 16, 2001), 71 Fed. Reg. 479 (January 4, 2006), 71 Fed. Reg. 37168 (June 29, 2006), and 74 Fed. Reg. 30958 (June 29, 2009)), which are incorporated by reference.

(b) Sample collection, and field tests including pH, alkalinity, and chlorine, chloramines, and chlorine dioxide residual disinfectants, shall be performed by personnel trained to perform such sample collections and/or tests by:

(1) The State Board;

(2) A laboratory certified pursuant to subsection (a); or

(3) An operator, certified by the State Board pursuant to section 106875(a) or (b) of the Health and Safety Code and trained by an entity in paragraph (1) or (2) to perform such sample collections and/or tests.

(c) Systems shall take all samples during normal operating conditions, which exclude those circumstances covered under section 64533.5(b).

(d) A system may apply to the State Board for approval to consider multiple wells drawing water from a single aquifer as one treatment plant for determining the minimum number of TTHM and HAA5 samples required under section 64534.2(a). In order to qualify for this reduction in monitoring requirements a system shall demonstrate to the State Board that the multiple wells produce water from the same aquifer. To make this demonstration, a system shall submit information to the State Board regarding the location, depth, construction, and geologic features of each well, and water quality information for each well. The State Board will use this information to determine whether the wells produce water from a single aquifer.

(e) Systems shall use only data collected under the provisions of this chapter to qualify for reduced monitoring pursuant to this article.

(f) Systems that fail to monitor shall be in violation of the monitoring requirements for the entire monitoring period that a monitoring result would be used in calculating compliance with

MCLs or MRDLs, and shall notify the public pursuant to sections 64463, 64463.7, and 64465, in addition to reporting to the State Board pursuant to sections 64537 through 64537.6.

(g) Systems that fail to monitor in accordance with the monitoring plan required by section 64534.8 shall be in violation of the monitoring requirements, and shall notify the public pursuant to sections 64463, 64463.7, and 64465, in addition to reporting to the State Board pursuant to sections 64537 through 64537.6.

§64534.2. Disinfection Byproducts Monitoring.
(a) Community and nontransient noncommunity water systems shall monitor for TTHM and HAA5 at the frequencies and locations indicated in table 64534.2-A.

Table 64534.2-A
Routine and Increased Monitoring Frequency for TTHM and HAA5

COLUMN A *Type of System*	COLUMN B *Persons Served*	COLUMN C *Minimum monitoring frequency*	COLUMN D *Sample location in the distribution system & increased monitoring frequencies*
Systems using approved surface water	≥10,000	Four samples per quarter per treatment plant	At least 25 percent of all samples collected each quarter at locations representing maximum residence time. Remaining samples taken at locations representative of at least average residence time in the distribution system and representing the entire distribution system, taking into account number of persons served, different sources of water, and different treatment methods[1].
	500 - 9,999	One sample per quarter per treatment plant	Locations representing maximum residence time[1].
	< 500	One sample per year per treatment plant during month of warmest water temperature	Locations representing maximum residence time[1]. If the sample (or average of annual samples, if more than one sample is taken) exceeds MCL, system shall increase monitoring to one sample per treatment plant per quarter, taken at a point reflecting the maximum residence time in the distribution system, until system meets reduced monitoring criteria in paragraph (3) of this subsection.

Systems using only ground water not under direct influence of surface water and using chemical disinfectant	≥10,000	One sample per quarter per treatment plant	Locations representing maximum residence time[1].
	<10,000	One sample per year per treatment plant during month of warmest water temperature	Locations representing maximum residence time[1]. If the sample (or average of annual samples, if more than one sample is taken) exceeds MCL, system shall increase monitoring to one sample per treatment plant per quarter, taken at a point reflecting the maximum residence time in the distribution system, until system meets reduced monitoring criteria in paragraph (3) of this subsection.

[1] If a system elects to sample more frequently than the minimum required, at least 25 percent of all samples collected each quarter (including those taken in excess of the required frequency) shall be taken at locations that represent the maximum residence time of the water in the distribution system. The remaining samples shall be taken at locations representative of at least average residence time in the distribution system.

(1) Systems may apply to the State Board to monitor at a reduced frequency in accordance with table 64534.2-B. The application shall include the results of all TOC, TTHM, and HAA5 monitoring conducted in the previous 12 months and the proposed revised monitoring plan as required by section 64534.8. The State Board will evaluate data submitted with the application to determine whether or not the system is eligible for the reduced monitoring specified in table 64534.2-B;

Table 64534.2-B
Reduced Monitoring Frequency for TTHM and HAA5

If the system is a(n) ...	*serving...*	*the system may reduce monitoring if it has monitored at least one year and...*	*to this level*
Approved surface water system which has a source water TOC[1] level, before	≥10,000	TTHM[1] ≤0.040 mg/L and HAA5[1] ≤0.030 mg/L	One sample per treatment plant per quarter at distribution system location reflecting maximum residence time.

any treatment, ≤4.0 mg/L					
		500-9,999		TTHM[1] ≤0.040 mg/L and HAA5[1] ≤0.030 mg/L		One sample per treatment plant per year at distribution system location reflecting maximum residence time during month of warmest water temperature.
System using only ground water not under direct influence of surface water and using chemical disinfectant		≥10,000		TTHM[1] ≤0.040 mg/L and HAA5[1] ≤0.030 mg/L		One sample per treatment plant per year at distribution system location reflecting maximum residence time during month of warmest water temperature.
		<10,000		TTHM[1] ≤0.040 mg/L and HAA5[1] ≤0.030 mg/L for two consecutive years OR TTHM[1] ≤0.020 mg/L and HAA5[1] ≤0.015 mg/L for one year		One sample per treatment plant per three-year monitoring cycle at distribution system location reflecting maximum residence time during month of warmest water temperature, with the three-year cycle beginning on January 1 following the quarter in which system qualifies for reduced monitoring.
[1] TOC, TTHM, and HAA5 values based on annual averages.						

(2) Systems on reduced monitoring shall resume monitoring at the frequency specified in column C of table 64534.2-A in the quarter immediately following the quarter in which the system exceeds 0.060 mg/L for the TTHM annual average or 0.045 mg/L for the HAA5 annual average, or 4 mg/L for the source water TOC annual average. For systems using only ground water not under the direct influence of surface water and serving fewer than 10,000 persons or for systems using approved surface water and serving fewer than 500 persons, if either the TTHM annual average is >0.080 mg/L or the HAA5 annual average is >0.060 mg/L, the system shall go to increased monitoring identified in column D of table 64534.2-A in the quarter immediately following the quarter in which the system exceeds 0.080 mg/L or 0.060 mg/L for the TTHM and HAA5 annual averages, respectively; and

(3) Systems on increased monitoring pursuant to column D of table 64534.2-A may return to routine monitoring specified in column C of table 64534.2-A if, after at least one year of monitoring, TTHM annual average is ≤0.060 mg/L and HAA5 annual average is ≤0.045 mg/L.

(b) Community and nontransient noncommunity water systems using chlorine dioxide shall conduct monitoring for chlorite as follows:

(1) Systems shall take daily samples at the entrance to the distribution system and analyze the samples the same day the samples are taken. For any daily sample that exceeds the chlorite

MCL, the system shall take three additional chlorite distribution system samples the following day (in addition to the daily sample required at the entrance to the distribution system) at these locations: as close to the first customer as possible, at a location representative of average residence time, and at a location reflecting maximum residence time in the distribution system. The system shall analyze the additional samples within 48 hours of being notified pursuant to section 64537(b) of the exceedance;
(2) Systems shall take a three-sample set each month in the distribution system. The system shall take one sample at each of the following locations: as close to the first customer as possible, at a location representative of average residence time, and at a location reflecting maximum residence time in the distribution system. Any additional routine sampling shall be conducted in the same manner (as three-sample sets, at the specified locations). The system may use the results of additional monitoring conducted under paragraph (1) to meet the monitoring requirement in this paragraph;
(3) Systems may apply to the State Board to reduce monthly chlorite monitoring in the distribution system pursuant to paragraph (2) to one three-sample set per quarter after one year of monitoring during which no individual chlorite sample taken in the distribution system has exceeded the chlorite MCL and the system has not been required to conduct additional monitoring under paragraph (1). The application shall include the results of all chlorite monitoring conducted in the previous 12 months and the proposed revised monitoring plan as required by section 64534.8. The State Board will evaluate data submitted with the application and determine whether or not the system is eligible to reduce monitoring to one three-sample set per quarter. The system may remain on the reduced monitoring schedule until either any of the three individual chlorite samples taken quarterly in the distribution system under paragraph (2) exceeds the chlorite MCL or the system is required to conduct additional monitoring under paragraph (1), at which time the system shall revert to routine monitoring; and
(4) If a distribution system sample taken pursuant to paragraph (2) exceeds the chlorite MCL, the system shall take and analyze a confirmation sample within 48 hours of being notified pursuant to section 64537(c) of the exceedance. If the system fails to take a confirmation sample pursuant to this paragraph, it shall take and analyze a confirmation sample within two weeks of notification of the results of the first sample.

(c) Community and nontransient noncommunity systems using ozone shall monitor for bromate as follows:
(1) Systems shall take one sample per month for each treatment plant in the system using ozone. Samples shall be taken at the entrance to the distribution system while the ozonation system is operating under normal conditions;
(2) Systems may reduce bromate monitoring from monthly to once per quarter, if the system's running annual average bromate concentration is $\leq$0.0025 mg/L based on monthly bromate measurements under paragraph (1) for the most recent four quarters, with samples analyzed using Method 317.0 Revision 2.0, 321.8, or 326.0. The system shall notify the State Board in writing within 30 days of the change in monitoring frequency. The system shall continue monthly bromide monitoring of the source water to remain on reduced bromate monitoring; and
(3) Systems shall resume routine bromate monitoring pursuant to paragraph (1) and notify the State Board in writing within 30 days of the change in monitoring frequency if:
(A) The running annual average bromate concentration, computed quarterly, is greater than 0.0025 mg/L; or
(B) The running annual average source water bromide concentration, computed quarterly, is equal to or greater than 0.05 mg/L based upon representative monthly measurements.

(d) By the applicable date specified in section 64530(d), and in lieu of TTHM and HAA5 monitoring in subsection (a):
(1) Community and nontransient noncommunity water systems shall monitor for TTHM and HAA5 at the frequencies and location totals indicated in table 64534.2-C and in accordance with the monitoring plan developed pursuant to section 64534.8;

Table 64534.2-C
Routine Monitoring Frequency for TTHM and HAA5

		Minimum monitoring frequency[1]	
Source water type	*Persons served*	*Number of distribution system monitoring locations*	*Monitoring period*[2]
Systems using approved surface water	≥5,000,000	20 dual sample sets	per quarter
	1,000,000 – 4,999,999	16 dual sample sets	per quarter
	250,000 – 999,999	12 dual sample sets	per quarter
	50,000 – 249,999	8 dual sample sets	per quarter
	10,000 – 49,999	4 dual sample sets	per quarter
	3,301 – 9,999	2 dual sample sets	per quarter
	500 – 3,300	1 TTHM and 1 HAA5 sample: one at the location with the highest TTHM measurement, one at the location with the highest HAA5 measurement	per quarter
	<500	1 TTHM and 1 HAA5 sample: one at the location with the highest TTHM measurement, one at the location with the highest HAA5 measurement[3]	per year
Systems using ground water not under direct influence of surface water	≥500,000	8 dual sample sets	per quarter
	100,000 – 499,999	6 dual sample sets	per quarter
	10,000 – 99,999	4 dual sample sets	per quarter

	500 – 9,999		2 dual sample sets	per year
	<500		1 TTHM and 1 HAA5 sample: one at the location with the highest TTHM measurement, one at the location with the highest HAA5 measurement[3]	per year

[1] All systems shall monitor during the month of highest disinfection byproduct concentrations.
[2] Systems on quarterly monitoring shall take dual sample sets every 90 days at each monitoring location, except for systems using approved surface water and serving 500 – 3,300 persons.
[3] Only one location with a dual sample set per monitoring period is needed if highest TTHM and HAA5 concentrations occur at the same location and month.

(2) Undisinfected systems that begin using a disinfectant other than UV light after the applicable dates in 40 Code of Federal Regulations, part 141.600 (71 Fed. Reg. 388, January 4, 2006), which is incorporated by reference, shall consult with the State Board to identify compliance monitoring locations for this subsection. Systems shall then develop a monitoring plan in accordance with section 64534.8 that includes those monitoring locations;
(3) Systems may apply to the State Board to monitor at a reduced frequency in accordance with table 64534.2-D, any time the LRAA is ≤0.040 mg/L for TTHM and ≤0.030 mg/L for HAA5 at all monitoring locations. In addition, the source water annual average TOC level, before any treatment shall be ≤4.0 mg/L at each treatment plant treating approved surface water, based on source water TOC monitoring conducted pursuant to section 64534.6. The application shall include the results of all TOC, TTHM, and HAA5 monitoring conducted in the previous 12 months and the proposed revised monitoring plan as required by section 64534.8. The State Board will evaluate data submitted with the application to determine whether or not the system is eligible for the reduced monitoring specified in table 64534.2-D;

Table 64534.2-D
Reduced Monitoring Frequency for TTHM and HAA5

			Minimum monitoring frequency	
Source water type		*Persons served*	*Number of distribution system monitoring locations*	*Monitoring period*[1]
Systems using approved surface water		≥5,000,000	10 dual sample sets: at the locations with the five highest TTHM and five highest HAA5 LRAAs	per quarter
		1,000,000 – 4,999,999	8 dual sample sets: at the locations with the	per quarter

			four highest TTHM and four highest HAA5 LRAAs		
		250,000 – 999,999	6 dual sample sets: at the locations with the three highest TTHM and three highest HAA5 LRAAs		per quarter
		50,000 – 249,999	4 dual sample sets: at the locations with the two highest TTHM and two highest HAA5 LRAAs		per quarter
		10,000 – 49,999	2 dual sample sets: at the locations with the highest TTHM and highest HAA5 LRAAs		per quarter
		3,301 – 9,999	2 dual sample sets: one at the location and during the quarter with the highest TTHM single measurement, one at the location and during the quarter with the highest HAA5 single measurement		per year
		500 – 3,300	1 TTHM and 1 HAA5 sample: one at the location and during the quarter with the highest TTHM single measurement, one at the location and during the quarter with the highest HAA5 single measurement; 1 dual sample set per year if the highest TTHM and HAA5 measurements occurred at the same location and quarter		per year

Systems using only ground water not under direct influence of surface water		≥500,000		4 dual sample sets: at the locations with the two highest TTHM and two highest HAA5 LRAAs	per quarter
		100,000 – 499,999		2 dual sample sets: at the locations with the highest TTHM and highest HAA5 LRAAs	per quarter
		10,000 – 99,999		2 dual sample sets: one at the location and during the quarter with the highest TTHM single measurement, one at the location and during the quarter with the highest HAA5 single measurement	per year
		500 – 9,999		1 TTHM and 1 HAA5 sample: one at the location and during the quarter with the highest TTHM single measurement, one at the location and during the quarter with the highest HAA5 single measurement; 1 dual sample set per year if the highest TTHM and HAA5 measurements occurred at the same location and quarter	per year
		<500		1 TTHM and 1 HAA5 sample: one at the location and during the quarter with the highest TTHM single measurement, one at the location and during the quarter with the highest HAA5 single measurement; 1 dual sample set every third year	every third year

				if the highest TTHM and HAA5 measurements occurred at the same location and quarter		

[1] Systems on quarterly monitoring shall take dual sample sets every 90 days.

(4) Systems on reduced monitoring shall resume routine monitoring pursuant to table 64534.2-C or conduct increased monitoring pursuant to paragraph (5) (if applicable), if the TTHM LRAA is >0.040 mg/L or the HAA5 LRAA is >0.030 mg/L at any monitoring location (for systems with quarterly reduced monitoring); a TTHM sample is >0.060 mg/L or a HAA5 sample is >0.045 mg/L (for systems with annual or less frequent monitoring); or the source water annual average TOC level, before any treatment, is >4.0 mg/L at any treatment plant treating an approved surface water;
(5) Systems that are required to monitor at a particular location annually or less frequently than annually pursuant to table 64534.2-C or 64534.2-D shall increase monitoring to dual sample sets once per quarter (taken every 90 days) at all locations if a TTHM sample is >0.080 mg/L or a HAA5 sample is >0.060 mg/L at any location. Systems on increased monitoring may return to routine monitoring specified in table 64534.2-C if, after at least four consecutive quarters of monitoring, the LRAA for every monitoring location is ≤0.060 mg/L for TTHM and ≤0.045 mg/L for HAA5;
(6) If the operational evaluation level (OEL) exceeds 0.080 mg/L for TTHM or 0.060 mg/L for HAA5 at any monitoring location, systems shall conduct an operational evaluation. The operational evaluation shall include the examination of system treatment and distribution operational practices, including storage tank operations, excess storage capacity, distribution system flushing, changes in sources or source water quality, and treatment changes or problems that may contribute to TTHM and HAA5 formation and what steps could be considered to minimize future exceedances. Systems that are able to identify the cause of the OEL exceedance may submit a written request to the State Board to limit the scope of the evaluation. The request to limit the scope of the evaluation shall not extend the schedule in section 64537(c) for submitting the written report to the State Board;
(7) Systems on reduced monitoring pursuant to table 64534.2-B may remain on reduced monitoring after the applicable date in table 64530-A for compliance with this subsection provided the system meets IDSE requirements under section 64530(c) by qualifying for a 40/30 certification (40 CFR part 141.603) or receiving a very small system waiver (40 CFR part 141.604), meets the reduced monitoring criteria in paragraphs (3) and (4), and does not change or add monitoring locations from those used for compliance monitoring under subsection (a); and
(8) Systems on increased monitoring pursuant to table 64534.2-A shall remain on increased monitoring and conduct increased monitoring pursuant to paragraph (5) at the locations in the monitoring plan developed under section 64534.8 beginning at the applicable date in table 64530-A for compliance with this subsection. Systems on increased monitoring may return to routine monitoring specified in table 64534.2-C pursuant to paragraph (5).

Article 4. Compliance requirements

§64535. General Requirements for Determining Compliance.

(a) All samples taken and analyzed in accordance with section 64534.8 shall be included in determining compliance, pursuant to sections 64535.2, 64535.4, and 64536.4.

(b) For violations of the MCLs in section 64533 or MRDLs in section 64533.5 that may pose an acute risk to human health, notification shall be pursuant to sections 64463, 64463.1, and 64465.

§64535.2. Determining Disinfection Byproducts Compliance.
(a) During the first year of monitoring for disinfection byproducts under sections 64534.2(a), (b), and (c), the system shall comply with paragraphs (1) through (3). During the first year of monitoring for TTHM and HAA5 under section 64534.2(d), the system shall comply with paragraphs (1) through (3) at each monitoring location:
(1) The average of the first quarter's results shall not exceed four times the MCLs specified in section 64533.
(2) The average of the first and second quarter's results shall not exceed two times the MCLs specified in section 64533.
(3) The average of the first, second, and third quarter's results shall not exceed 1.33 times the MCLs specified in section 64533.

(b) TTHM and HAA5 MCL compliance, as monitored pursuant to section 64534.2.(a), shall be determined as follows:
(1) For systems monitoring quarterly, the running annual arithmetic average, computed quarterly, of quarterly arithmetic averages of all samples collected pursuant to section 64534.2(a) shall not exceed the MCLs specified in section 64533;
(2) For systems monitoring less frequently than quarterly, the average of samples collected that calendar year pursuant to section 64534.2(a) shall not exceed the MCLs specified in section 64533. If the average of the samples collected under section 64534.2(a) exceeds the MCL, the system shall increase monitoring to once per quarter per treatment plant. Compliance with the MCL shall then be determined by the average of the sample that triggered the quarterly monitoring and the following three quarters of monitoring, unless the result of fewer than four quarters of monitoring will cause the running annual average to exceed the MCL, in which case the system is in violation immediately. After monitoring quarterly for four consecutive quarters (including the quarter that triggered the quarterly monitoring), and until such time as monitoring returns to routine monitoring pursuant to section 64534.2(a)(3), compliance shall be determined pursuant to paragraph (1);
(3) If the running annual arithmetic average of quarterly averages covering any consecutive four-quarter period exceeds the MCL, the system is in violation of the MCL and shall notify the public pursuant to sections 64463, 64463.4, and 64465, including language in appendix 64465-G, in addition to reporting to the State Board pursuant to sections 64537 through 64537.6; and
(4) If a public water system fails to complete four consecutive quarters of monitoring, compliance with the MCL for the last four-quarter compliance period shall be based on an average of the available data.

(c) Compliance for bromate shall be based on a running annual arithmetic average, computed quarterly, of monthly samples (or, for months in which the system takes more than one sample, the average of all samples taken during the month) collected by the system as prescribed by section 64534.2(c). If the average of samples covering any consecutive four-quarter period exceeds the MCL, the system is in violation of the MCL and shall notify the public pursuant to sections 64463, 64463.4, and 64465, including language in appendix 64465-G, in addition to reporting to the State Board pursuant to sections 64537 through 64537.6. If a public water system fails to complete 12 consecutive months of monitoring, compliance with the MCL for the last four-quarter compliance period shall be based on an average of the available data.

(d) Compliance for chlorite shall be based on the results of samples collected by the system pursuant to sections 64534.2(b).
(1) If any daily sample taken at the entrance to the distribution system exceeds the chlorite MCL and one (or more) of the three samples taken in the distribution system pursuant to section 64534.2(b)(1) exceeds the chlorite MCL, the system is in violation of the MCL and shall take immediate corrective action to reduce the concentration of chlorite to a level below the MCL. The system shall notify the State Board within 48 hours of the determination and notify the public pursuant to the procedures for acute health risks in sections 64463, 64463.1, and 64465, including language in appendix 64465-G, in addition to reporting to the State Board pursuant to sections 64537 through 64537.6. Failure to take samples in the distribution system the day following an exceedance of the chlorite MCL at the entrance to the distribution system is also an MCL violation and the system shall notify and report as described in this paragraph;
(2) If the average of an individual sample from the three-sample set taken pursuant to 64534.2(b)(2) and its confirmation sample taken pursuant to section 64634.2(b)(4) exceeds the chlorite MCL, the system is in violation of the MCL and shall take the corrective action and notify and report as described in paragraph (1). If the average of the individual sample and its confirmation does not exceed the MCL, the system shall inform the State Board of the results within seven days from receipt of the original analysis. Failure to take a confirmation sample pursuant to section 64534.2(b)(4) is also an MCL violation and the system shall notify and report as described in paragraph (1); and
(3) If any two consecutive daily samples taken at the entrance to the distribution system exceed the chlorite MCL and all distribution system samples taken pursuant to 64534.2(b)(1) are less than or equal to the chlorite MCL, the system is in violation of the MCL and shall take corrective action to reduce the concentration of chlorite to a level below the MCL at the point of sampling. The system shall notify the public pursuant to the procedures for nonacute health risks in sections 64463, 64463.4, and 64465, including the language in appendix 64465-G, in addition to reporting to the State Board pursuant to sections 64537 through 64537.6. Failure to monitor at the entrance to the distribution system the day following an exceedance of the chlorite MCL at the entrance to the distribution system is also an MCL violation and the system shall notify and report as described in this paragraph.

(e) TTHM and HAA5 MCL compliance, as monitored pursuant to section 64534.2(d), shall be determined as follows:
(1) For systems monitoring quarterly, each locational running annual average (LRAA), computed quarterly, shall not exceed the MCLs specified in section 64533;
(2) For systems monitoring annually or less frequently, each sample collected shall not exceed the MCLs specified in section 64533. If no sample exceeds the MCL, the sample result for each monitoring location shall be considered the LRAA for the monitoring location. If any sample exceeds the MCL, systems shall increase monitoring pursuant to section 64534.2(d)(5). Compliance with the MCL shall then be determined by the average of the sample that triggered the quarterly monitoring and the following three quarters of monitoring, unless the result of fewer than four quarters of monitoring will cause the LRAA to exceed the MCL, in which case the system is in violation immediately. After monitoring quarterly for four consecutive quarters (including the quarter that triggered the quarterly monitoring), and until such time as monitoring returns to routine monitoring pursuant to section 64534.2(d)(5), compliance shall be determined pursuant to paragraph (1);

(3) If a system fails to complete four consecutive quarters of monitoring, compliance with the MCL for the last four-quarter compliance period shall be based on an average of the available data. If more than one sample per quarter is taken at a monitoring location, all the samples taken in the quarter at that monitoring location shall be averaged to determine a quarterly average to be used in the LRAA calculation; and
(4) If the LRAA exceeds the MCL, calculated based on four consecutive quarters of monitoring (or the LRAA calculated based on fewer than four quarters of data if the MCL would be exceeded regardless of the monitoring results of subsequent quarters), the system is in violation of the MCL and shall notify the public pursuant to sections 64463, 64463.4, and 64465, including the language in appendix 64465-G, in addition to reporting to the State Board pursuant to sections 64537 through 64537.6.

§64463.4. Tier 2 Public Notice

(a) A water system shall give public notice pursuant to this section if any of the following occurs:

(1) Any violation of the MCL, MRDL, and treatment technique requirements, except:

(A) Where a Tier 1 public notice is required under section 64463.1; or

(B) Where the State Board determines that a Tier 1 public notice is required, based on potential health impacts and persistence of the violations;

(2) All violations of the monitoring and testing procedure requirements in sections 64421 through 64426.1, article 3 (Primary Standards – Bacteriological Quality), for which the State Board determines that a Tier 2 rather than a Tier 3 public notice is required, based on potential health impacts and persistence of the violations;

(3) Other violations of the monitoring and testing procedure requirements in this chapter, and chapters 15.5, 17 and 17.5, for which the State Board determines that a Tier 2 rather than a Tier 3 public notice is required, based on potential health impacts and persistence of the violations; or

(4) Failure to comply with the terms and conditions of any variance or exemption in place.

(b) A water system shall give the notice as soon as possible within 30 days after it learns of a violation or occurrence specified in subsection (a), except that the water system may request an extension of up to 60 days for providing the notice. This extension would be subject to the State Board's written approval based on the violation or occurrence having been resolved and the State Board's determination that public health and welfare would in no way be adversely affected. In addition, the water system shall:

(1) Maintain posted notices in place for as long as the violation or occurrence continues, but in no case less than seven days;

(2) Repeat the notice every three months as long as the violation or occurrence continues. Subject to the State Board's written approval based on its determination that public health would in no way be adversely affected, the water system may be allowed to notice less frequently but in no case less than once per year. No allowance for reduced frequency of notice shall be given in the case of a total coliform MCL violation or violation of a Chapter 17 treatment technique requirement; and

(3) For turbidity violations pursuant to sections 64652.5(c)(2) and 64653(c), (d) and (f), as applicable, a water system shall consult with the State Board as soon as possible within 24

hours after the water system learns of the violation to determine whether a Tier 1 public notice is required. If consultation does not take place within 24 hours, the water system shall give Tier 1 public notice within 48 hours after learning of the violation.

(c) A water system shall deliver the notice, in a manner designed to reach persons served, within the required time period as follows:

(1) Unless otherwise directed by the State Board in writing based on its assessment of the violation or occurrence and the potential for adverse effects on public health and welfare, community water systems shall give public notice by;

(A) Mail or direct delivery to each customer receiving a bill including those that provide their drinking water to others (e.g., schools or school systems, apartment building owners, or large private employers), and other service connections to which water is delivered by the water system; and

(B) Use of one or more of the following methods to reach persons not likely to be reached by a mailing or direct delivery (renters, university students, nursing home patients, prison inmates, etc.):

1. Publication in a local newspaper;
2. Posting in conspicuous public places served by the water system, or on the Internet; or
3. Delivery to community organizations.

(2) Unless otherwise directed by the State Board in writing based on its assessment of the violation or occurrence and the potential for adverse effects on public health and welfare, noncommunity water systems shall give the public notice by:

(A) Posting in conspicuous locations throughout the area served by the water system; and

(B) Using one or more of the following methods to reach persons not likely to be reached by a public posting:

1. Publication in a local newspaper or newsletter distributed to customers;
2. E-mail message to employees or students;
3. Posting on the Internet or intranet; or
4. Direct delivery to each customer.

§64469 Reporting Requirements

(d) Within 10 days of giving initial or repeat public notice pursuant to Article 18 of this Chapter, except for notice given under 64463.7(d), each water system shall submit a certification to the State Board that it has done so, along with a representative copy of each type of public notice given.

IMPORTANT INFORMATION ABOUT YOUR DRINKING WATER

Este informe contiene información muy importante sobre su agua potable.
Tradúzcalo o hable con alguien que lo entienda bien.

EBMUD – Camanche South Shore has levels of Disinfection Byproducts Above Drinking Water Standards

Our water system recently failed a drinking water standard. Although this is not an emergency, as our customers, you have a right to know what you should do, what happened, and what we are doing to correct this situation.

We routinely monitor for the presence of drinking water contaminants. Testing results we received on _____ show that our system exceeds the standard, or maximum contaminant level (MCL), for Total Trihalomethanes and/or Haloacatic Acids (Five). The MCL standards for Total Trihalomethanes and Haloacetic Acids (Five) are 80 ug/L and 60 ug/L, respectively. The average level of Total Trihalomethanes over the last year was _____. The average level of Haloacetic Acids (Five) over the last year was _____.

What should I do?

- **You <u>do not</u> need to use an alternative (e.g., bottled) water supply.**
  - This is not an immediate risk. If it had been, you would have been notified immediately. However, *Some people who drink water containing haloacetic acids in excess of the MCL over many years may have an increased risk of getting cancer*
- If you have other health issues concerning the consumption of this water, you may wish to consult your doctor.

What happened? What was done?

[Describe corrective action]_____
_____

We anticipate resolving the problem within _____.

For more information, please contact [Water System Contact Name] _____ at [phone number] _____ or at the following mailing address: _____.

Please share this information with all the other people who drink this water, especially those who may not have received this notice directly (for example, people in apartments, nursing homes, schools, and businesses). You can do this by posting this notice in a public place or distributing copies by hand or mail.

Secondary Notification Requirements

Upon receipt of notification from a person operating a public water system, the following notification must be given within 10 days [Health and Safety Code Section 116450(g)]:

- SCHOOLS: Must notify school employees, students, and parents (if the students are minors).
- RESIDENTIAL RENTAL PROPERTY OWNERS OR MANAGERS (including nursing homes and care facilities): Must notify tenants.
- BUSINESS PROPERTY OWNERS, MANAGERS, OR OPERATORS: Must notify employees of businesses located on the property.

This notice is being sent to you by the EBMUD-Camanche South Shore water system.

State Water System ID#: **0510012** Date distributed: _____.

Attachment C

Certification of Completion of Public Notification

This form, when completed and returned to the Division of Drinking Water - Stockton District (31 E. Channel Street, Room 270, Stockton, CA 95202), serves as certification that public notification to water users was completed as required by Title 22, California Code of Regulations, Sections 64463-64465.

Public Water System Name: _____

Public Water System No.: _____

Public notification for **failure to comply with the TTHM MCL and/or HAA5 MCL for the quarter of 20** was performed by the following method(s) (check and complete those that apply):

The notice was mailed to users on: _____
A copy of the notice is attached.

The notice was hand delivered to water customers on: _____
A copy of the notice is attached.

The notice was published in the local newspaper on: _____
A copy of the newspaper notice is attached.

The notice was published in conspicuous places on: _____
A copy of the notice is attached.
A list of locations the notice was posted is attached.

The notice was delivered to community organizations on: _____
A copy of the notice is attached.
A list of community organizations the notice was delivered to is attached.

I hereby certify that the above information is factual.

_____
Printed Name

_____
Title

_____
Signature

_____
Date

Disclosure: Be advised that Section 116725 and 116730 of the California Health and Safety Code state that any person who knowingly makes any false statement on any report or document submitted for the purpose of compliance with the attached order may be liable for a civil penalty not to exceed five thousand dollars ($5,000) for separate violation each day that the violation continues. In addition, the violators may be prosecuted in criminal court and, upon conviction, be punished by a fine of not more than $25,000 for each day of violation, or be imprisoned in the county jail not to exceed one year, or by both the fine and imprisonment.

Due to the Division of Drinking Water within 10 days of issuance of notice to customers
System Number: _____
Enforcement Action No. _____

Attachment D

Quarterly Progress Report

Water System:	Water System No.:
Compliance Order No.:	Violation:
Calendar Quarter:	Date Prepared:

This form should be prepared and signed by Water System personnel with appropriate authority to implement the directives of the Compliance Order and the Corrective Action Plan. Please attach additional sheets as necessary. The quarterly progress report must be submitted by the 10th day of each subsequent quarter, to the Division of Drinking Water, Stockton District Office.

Summary of Compliance Plan:

Tasks completed in the reporting quarter:

Tasks remaining to complete:

Anticipated compliance date:

Name

Signature

Title

Date

Stage 2 DBP Monitoring Plan

(Please complete all sections below)

Submit Report to:
SWRCB – Division of Drinking Water
31 E. Channel Street, Room 270, Stockton, CA 95202

General Information | **Date Submitted:**

A. PWS Information

PWS ID: _____

PWS Name: _____

PWS Address: _____

City: _____ State: _____ Zip: _____

Population Served: _____

B. PWS Operations

Residual Disinfectant Type: _____Chlorine _____Chloramines _____Other: _____

Number of Disinfected Sources: _____Surface _____GWUDI _____Ground _____Purchased

C. Contact Person

Name: _____

Title: _____

Phone#: _____ Fax#: _____

E-mail: _____

D. Stage 2 Requirements

1. Number of Compliance Monitoring Sites

Highest TTHM: _____

Highest HAA5: _____

Existing Stage 1: _____

Other: _____

Total _____

2. Schedule

_____Schedule 1

_____Schedule 2

_____Schedule 3

_____Schedule 4

E. IDSE Requirements

1. Was your water system required to conduct Standard Monitoring? _____Yes _____No
   If Yes, please provide the date of the IDSE Report. _____
2. Received a 40/30 waiver? _____Yes _____No
3. Received a VSS waiver? _____Yes _____No

NOTES:

Important – An updated ST2 DBP Plan must be submitted to the Division for review and approval if there are any changes in treatment, distribution system operations and layout, or other factors that may affect TTHM or HAA5 formation.

Some changes that may warrant updating a ST2 DBP Plan are: Adding or removing a source, adding or removing a booster chlorination site, adding or removing a storage tank, adding a new service area, changes to the primary or residual disinfectant site or type (only if it is expected to impact relative DBP levels in the distribution system).

Signature: _____ Date: _____

Print Name: _____ Title: _____

F. Stage 2 DBP Monitoring Plan

Stage 2 Compliance Monitoring Site ID		Projected Sampling Date (Date or Week and Month) ***Must be*			
Station Name *Optional	**Street Address and City ***Must be provided****	**Period 1 (1)**	**Period 2 (1)**	**Period 3 (1)**	**Period 4 (1)**
(1) Sampling must be conducted every 90 days. **If you modified the sampling location and dates from those in your IDSE report, justification must be provided on a separate sheet.**					
Site 1	12345 ABC Dr.	May/ week 2	August/ week 2	November/ week 2	February/ week 2

Water System Name: ________________________________

System number: __________________________________

Stage 2 D/DBPR monitoring plan - Sample site justification

Stage 2 monitoring locations	Site type	Justification
Site 1 12345 ABC Dr.	___Highest TTHM ___Highest HAA5 ___Stage 1 DBPR ___Other	Located in the north-east portion of the distribution system, this sample site primarily receives water from a 9,000 foot mainline.
	___Highest TTHM ___Highest HAA5 ___Stage 1 DBPR ___Other	
	___Highest TTHM ___Highest HAA5 ___Stage 1 DBPR ___Other	
	___Highest TTHM ___Highest HAA5 ___Stage 1 DBPR ___Other	
	___Highest TTHM ___Highest HAA5 ___Stage 1 DBPR ___Other	
	___Highest TTHM ___Highest HAA5 ___Stage 1 DBPR ___Other	
	___Highest TTHM ___Highest HAA5 ___Stage 1 DBPR ___Other	
	___Highest TTHM ___Highest HAA5 ___Stage 1 DBPR ___Other	

Stage 2 monitoring locations	Site type	Justification
	___Highest TTHM ___Highest HAA5 ___Stage 1 DBPR ___Other	
	___Highest TTHM ___Highest HAA5 ___Stage 1 DBPR ___Other	
	___Highest TTHM ___Highest HAA5 ___Stage 1 DBPR ___Other	
	___Highest TTHM ___Highest HAA5 ___Stage 1 DBPR ___Other	
	___Highest TTHM ___Highest HAA5 ___Stage 1 DBPR ___Other	
	___Highest TTHM ___Highest HAA5 ___Stage 1 DBPR ___Other	
	___Highest TTHM ___Highest HAA5 ___Stage 1 DBPR ___Other	
	___Highest TTHM ___Highest HAA5 ___Stage 1 DBPR ___Other	

Compliance Calculation Procedures

Quarterly Monitoring

When monitoring quarterly, compliance is based on locational running annual average (LRAA) calculated quarterly using the following formula:

LRAA = (MP1 + MP2 + MP3 + MP4)/4
MP1= Result of sample collected 3 Quarters Ago, MP2= Result of sample collected 2 Quarters Ago,
MP3= Result of sample collected Last Quarter, MP4= Result of sample collected Current Quarter

If any quarterly samples are missing, compliance is based on the average of the available data from the most recent four quarters.

Operational Evaluation Level (OEL)

Operational Evaluation Level (OEL) will be calculated for each monitoring location using the following formula:

OEL = (MP2 + MP3 + 2MP4)/4
MP2= Result of sample collected 2 Quarters Ago,
MP3= Result of sample collected Last Quarter,
MP4= Result of sample collected Current Quarter

If the OEL is higher than the TTHM or HAA5 MCL at any location in the distribution system, conduct an operational evaluation by examining the system treatment and distribution operational practices, including: storage tank operations; excess storage capacity; distribution system flushing; changes in sources or source water quality; treatment changes; and any problems that may contribute to TTHM or HAA5 formation. Identify what steps could be taken to minimize future OEL exceedances and submit operational evaluation report to CDPH for review within 90 days.

Reduced Stage 2 DBPR monitoring

The criteria to qualify for reduced TTHM and HAA5 monitoring remain consistent with those included in the Stage 1 DBPR. Systems may qualify for reduced monitoring if:

- TTHM LRAA at each monitoring location is no more than 0.040 mg/L.
- HAA5 LRAA at each monitoring location is no more than 0.030 mg/L.
- The annual average TOC level at each treatment plant is 4.0 mg/L or less for surface water systems .

Note that reduced monitoring is not allowed on a location-by-location basis. All sites must meet the criteria in order for the system to reduce monitoring. A written request for reduced monitoring must be submitted to the Department for review and approval.

Systems required to monitoring quarterly under routine monitoring must continue to meet these criteria in order to remain on reduced monitoring. For systems on annual or less frequent routine monitoring the LRAAs for TTHM and HAA5 must remain no higher than 0.060 mg/L and 0.045 mg/L, respectively and surface water ystems must continue to meet the TOC criteria.

If reduced monitoring results indicate that a system is no longer eligible for reduced monitoring, the system must resume routine monitoring the quarter immediately following the monitoring period in which the system exceeded the specified levels for reduced monitoring.

Increased Monitoring

If a system that is required to monitor annually or less frequently on routine monitoring exceeds the TTHM and HAA5 MCL, this system must go to increased monitoring in the quarter immediately following the monitoring period in which the system exceeded the MCL.